



MATERIAL SAFETY DATA SHEET DP4 5466

SEC	TION I	M 2766
MANUFACTURER'S NAME E. I. du Pont de Nemours & Co. (1)	nc.) EMERGEN	774-7500
ADDRESS (Number, Street, City, State, and ZIP Code) Wilmington, DE 19898		
CHEMICAL NAME AND SYNONYMS Hydrofluoric Acid. Aqueous	TRADE NAME AND Hydrofluori	SYNONYMS C Acid 70% Tech.
CHÉMICAL FAMILY Inorganic Acid	HF Solution, Aqueo	
SECTION II HAZARDOUS	INGREDIENTS OF M	IXTURES
70% HF in water		
- 1	And the suppose of th	
SECTION III	PHYSICAL DATA	
BOILING POINT 66 C 151.9F	SPECIFIC GRAVITY (H, 0+1)	1.258
VAPOR PRESSURE (mm Hg) @ 20 C/ 68 F 124	PERCENT VOLATILE 6Y VOLUME (%)	100
VAPOR DENSITY (AIR=1) 0.7	evaporation pate (ether = 1) less than	1
SOLUBILITY IN WATER COMplete	1	
Clear, colorless to slightly tinte	ed fuming liquid; pung	gent odor
SECTION IV FIRE AND	EXPLOSION HAZARI	DATA
FLASH POINT (Method Used) Non-flammable	FLAMMABLE LIMITS	LEL UEL
extinguishing media Water	A	TEMP.
special fire fighting procedures Cool tank with water if exposed to	o fire. Wear self-cor	ntained breathing
apparatus & full protective cloth		
UNUSUAL FIRE AND EXPLOSION HAZARDS Hydrofluoric Acid corrodes most me	etals releasing flamma	able & explosive
concentrations of hydrogen (partic	cularly when diluted)	
SECTION V HE	ALTH HAZARD DATA	••
THRESHOLD LIMIT VALUE (ACGIH) 3 ppm (hydrogen fluc	oride) Not establish	
EFFECTS OF OVEREXPOSURE Extremely hazardous liquid and var	•	
hazard. Causes severe burns which		
visible.		
emergency and furst ald procedures If contament should be started immediately lately flush with large quantities while removing contaminated cloth to skin under nails. Then apply chloride solution, iced 70% ethyl Epsom Salts (magnesium sulfate). continue washing in cool water unter the should be supposed to the sulfate of the sulfate	act is even suspected y. Call physician imm	first aid treat hediately. Immed-
natery flush with large quantities while removing contaminated cloth	s of cool water for at ing & shoes; pay part	least 15 minute icular attention
to skin under nails. Then apply the chloride solution, iced 70% ethyl	iced alcoholic or aque alcohol, or iced sati	ous benzalkonium urated solution o
Epsom Salts (magnésium sulfate). Continue washing in cool water un	It these solutions are til medical help is ol	e not available, stained. (See Att

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The information set forth herein is furnished free of charge and is based on technical data that Du Pont believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside our control, we make no warrantes, express or implied, and assume no trability in connection with any use of this information. Not no herein is to be taken as a license to control.

SECTION VI REACTIVITY DATA	_
STABILITY UNSTABLE CONDITIONS TO AVOID	
STABLE X	4
INCOMPATIBILITY (Materials to avoid)	4
HAZARPOUS DECOMPOSITION PRODUCTS HF Vapors, H ₂ (from contact with metals).	4
HAZARDOUS MAY OCCUR CONDITIONS TO AVOID POLYMERIZATION	4
WILL NOT OCCUR X	4
the same of the sa	
SECTION VII SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Do not breathe vapor, get in eyes, on skin or on clothing. Keep	_
personnel upwind of spill & do not enter area unless equipped with	_
full protective equipment & self-contained breathing apparatus.	
WASTE DISPOSAL METHOD Flush immediately with water, neutralize with lime & flush again with	4.
water. Run-off to sewer may create toxic hazard; notify authorities.	
	-
SECTION VIII SPECIAL PROTECTION INFORMATION	_
RESPIRATORY PROTECTION (Specific Type) None for normal use. Self-contained breathing apparatus for severe exposure (tank cleaning)	4
VENTILATION LOCAL EXHAUST Maintain adequate ventilation should be located adia MECHANICAL (General) (Forced draft ventila- other to source of fur	ader
tion. Scrubbers for fume control.) & remotely discharged	
	_
EYE PROTECTION	
Rubber or plastic coated gloves Chemical safety goggles or face sh covering forearms.	idl
Hard hat rubber shoes rubber apron, long sleeve	d
shirt & trousers of wool or "ORLON". In emergencies or work with con siderable exposure, wear full rubber suit with hood.	듹
SECTION IX SPECIAL PRECAUTIONS	_
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in Well ventilated buildings or sheds. Protect against heat &	_
physical damage. Do not get in eyes, on skin, on clothing. Do not	\dashv
breathe vapor. Keep container closed. Wash thoroughly after handlin	g.
	-
OTHER PRECAUTIONS Before handling, obtain & thoroughly read MCA-SD-25	\dashv
i de la companya de	1

E-18963

For more information refer to: Du Pont Storage & Handling Bulletin (A-72709)

Manufacturing Chemists Association SD-25

